

ballondor

April 12, 2022

The Ballon d'Or is an annual football prize presented by France Football. The award, voted for by football journalists, is given to the male player who was deemed to have played the best football over the previous 12 months.

Import all necessary libraries

```
[44]: import requests
      from bs4 import BeautifulSoup
      import pandas as pd
      import numpy as np
      import plotly.express as px
      import seaborn as sns
      import matplotlib.pyplot as plt
      from wordcloud import WordCloud
      from IPython.display import Image
```

```
[15]: # pip install WordCloud
```

0.0.1 Read the csv file in new dataframe

```
[16]: df = pd.read_csv('BallonDorOutput.csv', encoding='utf8')
```

0.0.2 Data Exploration!

```
[17]: df.head()
```

```
[17]:
```

	year	player	Nationality	club
0	2021	Lionel Messi	Argentina	Paris Saint-Germain F.C.
1	2019	Lionel Messi	Argentina	Barcelona
2	2018	Luka Modric	Croatia	Real Madrid
3	2017	Cristiano Ronaldo	Portugal	Real Madrid
4	2016	Cristiano Ronaldo	Portugal	Real Madrid

```
[18]: df.tail()
```

```
[18]:
```

	year	player	Nationality	club
60	1960	Luis Suárez	Spain	Barcelona
61	1959	Alfredo Di Stéfano	Spain	Real Madrid

62	1958	Raymond Kopa	France	Real Madrid
63	1957	Alfredo Di Stéfano	Spain	Real Madrid
64	1956	Stanley Matthews	England	Blackpool

```
[19]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 65 entries, 0 to 64
Data columns (total 4 columns):
#   Column          Non-Null Count  Dtype
---  -
0   year            65 non-null    int64
1   player          65 non-null    object
2   Nationality     65 non-null    object
3   club            65 non-null    object
dtypes: int64(1), object(3)
memory usage: 2.2+ KB
```

```
[20]: df.columns
```

```
[20]: Index(['year', 'player', 'Nationality', 'club'], dtype='object')
```

```
[21]: df.isna().sum()
```

```
[21]: year            0
player            0
Nationality       0
club              0
dtype: int64
```

Which club's players won the most?

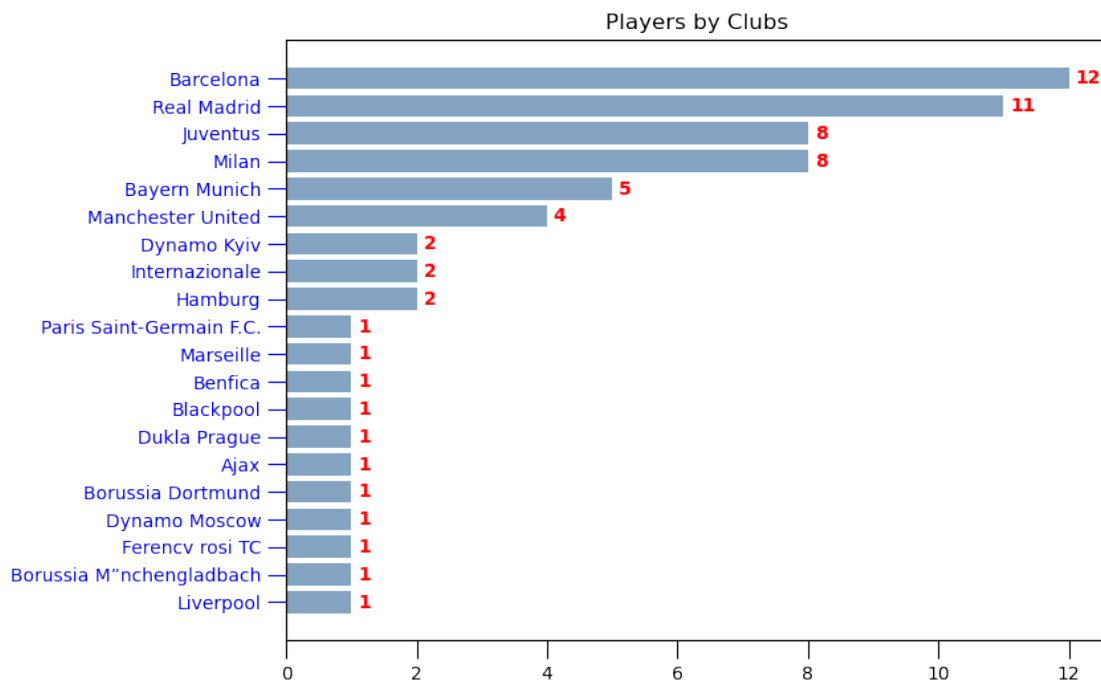
```
[22]: clubs=df.club.value_counts().index
no_players=df.club.value_counts().values

plt.figure(figsize=(8,6), dpi=100)
plt.title("Players by Clubs")
plt.barh(y=clubs, width=no_players, align='center',color=(0.2, 0.4, 0.6, 0.6))

#Set tick colors:
plt.gca().invert_yaxis()
plt.tick_params(axis='x', colors='black', size=10)
plt.tick_params(axis='y', colors='blue', size=10)

# display the value of the bar on each bar
for i, v in enumerate(no_players):
    plt.text(v+0.1, i+0.2, str(v), color='r', fontweight='bold')
```

```
plt.show()
```



Which country's players won the most?

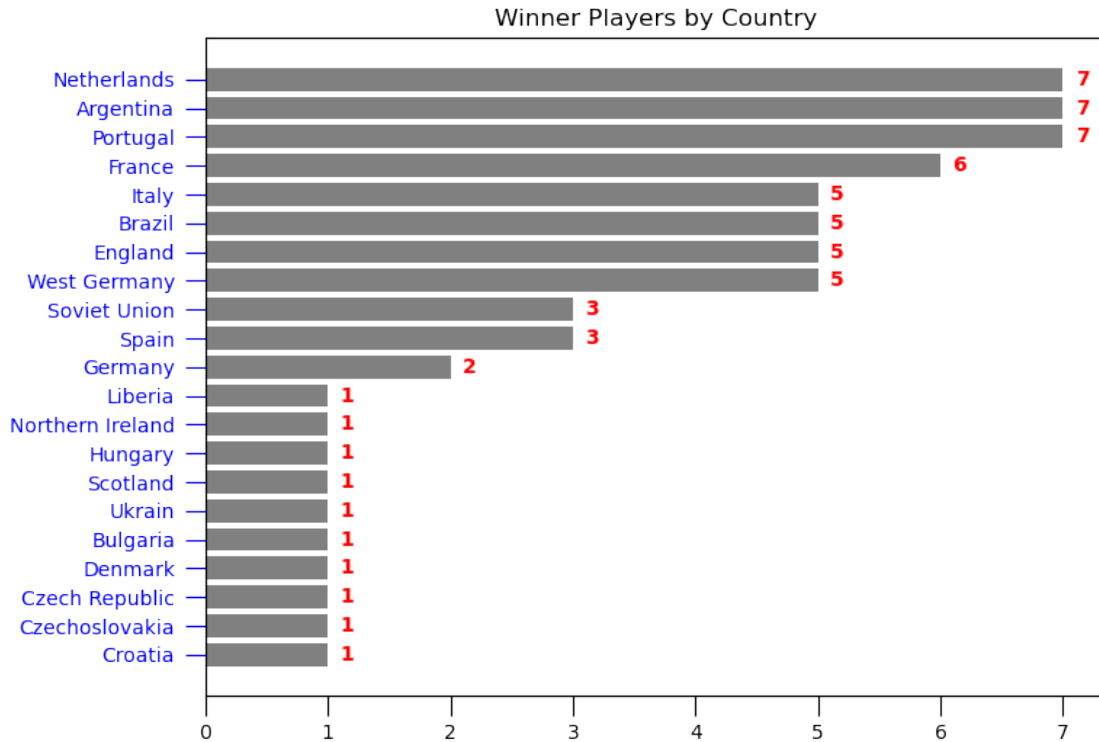
```
[23]: countries = df.Nationality.value_counts().index
no_players = df.Nationality.value_counts().values

plt.figure(figsize=(8,6),dpi=100)
plt.title("Winner Players by Country")
plt.barh(y=countries, width=no_players, align='center',color="grey",)

#Set tick colors:
plt.gca().invert_yaxis() # labels read top-to-bottom
plt.tick_params(axis='x', colors='black',size=10)
plt.tick_params(axis='y', colors='blue', pad=5,size=10,)

# display the value of the bar on each bar
for i, v in enumerate(no_players):
    plt.text(v + 0.1, i + 0.2, str(v), color='r', fontweight='bold')

plt.show()
```



0.0.3 Players who have won the FIFA Ballon d'Or more than once between 1956 and 2021

```
[29]: won_more_than_once = df.player.value_counts()
import os
```

```
if not os.path.exists("images"):
    os.mkdir("images")
```

```
[25]: x=won_more_than_once[:10].values
y=won_more_than_once[:10].index
```

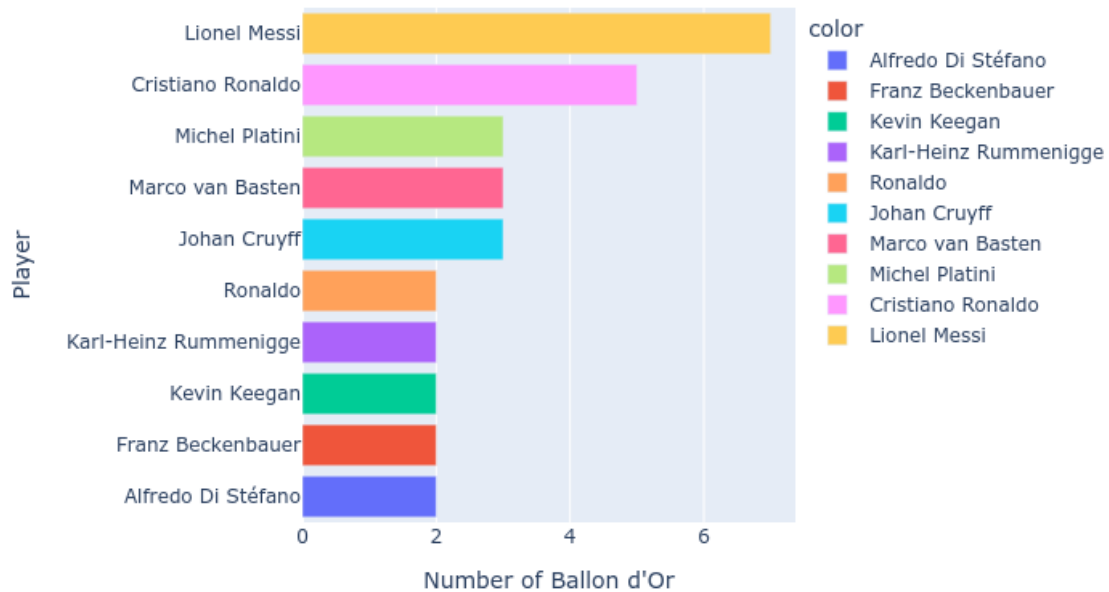
```
[43]: h_bar = px.bar(x=x[::-1],
                    y=y[::-1],
                    orientation='h',
                    color=y[::-1],
                    title="Players who have won the FIFA Ballon d'Or more than once_
↳")

h_bar.update_layout(xaxis_title="Number of Ballon d'Or",
                    yaxis_title='Player',
                    coloraxis_showscale=False)
```

```
# h_bar.show()
h_bar.write_image("images/fig1.png")
Image(filename="images/fig1.png")
```

[43]:

Players who have won the FIFA Ballon d'Or more than once



0.0.4 Create the wordcloud

```
[46]: # Create a list of word
players_name = list(df.player)
str1 = ' '.join(players_name)

# Create the wordcloud object
wordcloud = WordCloud(width=1480,
                       height=680,
                       margin=10,).generate(str1)

plt.figure(figsize=(8,6),dpi=100)

# Display the generated image:
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
```

```
plt.margins(x=0, y=0)
plt.show()
```



[]: